

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A brush head for a an electric toothbrush, ~~which includes a handpiece with a drive mechanism for the brush head, with an in particular disk or plate shaped~~
the brush head comprising

a brush head support; and

a bristle support (2) which carries carrying an array of bristles (11), is and mounted for movement on a ~~the brush head support (3) and includes connecting elements (7) for coupling to the drive mechanism in the handpiece of the toothbrush,~~ said bristle support (2) being divided into several bristle support segments (8; 9) movable relative to each other, and with driving elements (13; 19) changing the position of the bristle support segments (8; 9) relative to each other ~~in dependence upon the~~ as a function of a position of said bristle support (2), characterized ~~in that wherein~~ said driving elements (13; 19) are provided on the brush head support (3) and at least one bristle support segment (9) and comprise a cam control surface (14; 20) ~~as well as and~~ an engagement element (15; 21) cooperating therewith, ~~which are provided on the brush head support (3) and at least one bristle support segment (9).~~

2. (Currently Amended) The brush head ~~as claimed in the preceding claim~~ of claim 1 wherein the ~~entire~~ bristle support (2) is mounted for rotation about an axis of rotation (6), ~~in particular in a direction transverse to the brush head longitudinal direction, being in particular adapted to be driven in an oscillatory rotational motion,~~ and wherein the cam control surface (14; 20) is arranged on an arc about the axis of rotation (6), ~~being in particular formed on the brush head support (3).~~

3. (Currently Amended) The brush head ~~as claimed in any one of the preceding~~ claims of claim 1 wherein several bristle support segments (9), ~~preferably one pair of bristle support segments (9) arranged at diametrically opposite sides~~ are adapted to be driven in dependence upon the rotary position of the bristle support (2), with the cam control surface (14; 20) including several sections, ~~whereof a respective one of said~~ which sections being associated with a corresponding one of the ~~drivable~~ bristle support segments (9).

4. (Currently Amended) The brush head ~~as claimed in any one of the preceding~~ claims of claim 1 wherein ~~the driving elements (19) are constructed as a positive control, such that the cam control surface (20) and the engagement element (21) cooperating therewith are always in relative engagement and act in opposed directions of movement.~~

5. (Currently Amended) The brush head ~~as claimed in any one of the preceding~~ claims 1 to 3 of claim 1 wherein the cam control surface (14) and the engagement element (15) cooperating therewith are disengageable from each other and maintained in relative engagement by reaction forces developing while brushing the teeth.

6. (Currently Amended) The brush head ~~as claimed in any one of the preceding~~ claims of claim 1 wherein ~~the~~ construction of the driving elements (13; 19) and ~~the~~ mounting of the bristle support segments (9) adapted to be driven by said driving elements are such that on rotation of the bristle support (2) about its an axis of rotation, (6) at least ~~part~~ some of said bristle support segments (9) ~~executes~~ execute a poking motion in the a direction of the axis of rotation (6).

7. (Currently Amended) The brush head ~~as claimed in any one of the preceding~~ claims of claim 1 wherein the bristle support (2) has a neutral position from which it is drivable in oscillatory manner in opposite directions, and wherein the cam control surface (14) is configured such that ~~the respective~~ bristle support segment (9) driven by the cam control surface

~~assumes~~ obtain a maximum stroke position in the neutral position of the bristle support (2) while occupying a minimum stroke position when ~~the~~ displacement of the bristle support (2) from its neutral position is at ~~its~~ a maximum.

8. (Currently Amended) The brush head ~~as claimed in any one of the preceding claims 1 to 6 of claim 1~~ wherein the bristle support has a neutral position from which it is drivable in oscillatory manner in opposite directions, and wherein the cam control surface (20) is configured such that ~~the respective~~ bristle support segment (9) driven by the cam control surface ~~assumes~~ obtain a minimum stroke position in the neutral position of the bristle support while occupying a maximum stroke position when ~~the~~ displacement of the bristle support from its neutral position is at ~~its~~ a maximum.

9. (Currently Amended) The brush head ~~as claimed in any one of the preceding claims of claim 1~~ wherein several of the bristle support segments (9) are raised by corresponding cam control surfaces (14; 20) ~~in the same~~ according to a given timed sequence.

10. (Currently Amended) The brush head ~~as claimed in any one of the preceding claims of claim 1~~ wherein the bristle support (2) includes at least one bristle support segments (9) mounted for swivel movement about a swivel axis (10; 18) ~~extending in particular in a direction approximately transverse to the bristle support's axis of rotation (6).~~

11. (Currently Amended) The brush head ~~as claimed in any one of the preceding claims of claim 10~~ wherein the ~~bristle support (2) includes at least one bristle support segment (9) sitting on a radially extending~~ swivel axis (18) extends in a radial direction, such that bristles ~~sitting on the bristle support segment (9) mounted for swivel movement about the swivel axis~~ swivel in a plane tangential to ~~the~~ a circumferential direction of the bristle support (2).

12. (Currently Amended) The brush head ~~as claimed in~~ of claim 10 wherein the bristle support ~~includes at least one bristle support segment mounted for swivel movement about a transverse swivel axis (10) extending~~ extends in a direction transverse to the bristle support segment mounted for swivel movement about a swivel axis, such that bristles ~~(16) sitting on the~~ that bristle support segment ~~(9) swivel in or in a direction~~ swivel in a direction parallel to a radial plane containing the an axis of rotation (6) of the bristle support (2).

13. (Currently Amended) The brush head ~~as claimed in any one of the preceding~~ claims of claim 1 wherein the cam control surface (14; 20) is formed directly by a surface of the brush head support (3), ~~in particular by a section of the brush tube and/or a bristle support mounting structure (5) of the brush head support (3).~~

14. (Currently Amended) The brush head ~~as claimed in any one of the preceding~~ claims 1 to 12 of claim 1 wherein the cam control surface (14; 20) is formed by an element separate from, and fixedly connected with, the brush head support (3).

15. (Currently Amended) The brush head ~~as claimed in any one of the preceding~~ claims of claim 1 wherein the engagement element (21) ~~associated with the cam control surface (20)~~ forms a curved engagement surface that is curved in ~~the~~ a same direction as, and with about the same curvature radius as, the cam control surface.

16. (Currently Amended) The brush head ~~as claimed in any one of the preceding~~ claims 1 to 14 of claim 1 wherein the cam control surface (14) includes at least two concave depressions and a protuberance connecting said depressions, and wherein the engagement element ~~(15)~~ forms a curved engagement surface whose curvature corresponds approximately to one of said depressions.

17. (Currently Amended) The brush head ~~as claimed in any one of the preceding claims of claim 1~~ wherein the driving elements (13; 19) and the bristle support segments (9) driven by said driving elements lie approximately ~~in the region of the~~ along a longitudinal axis of the brush head when the bristle support (2) is in a non-displaced position.

18. (Currently Amended) The brush head ~~as claimed in any one of the preceding claims of claim 1~~ wherein ~~the or~~ each bristle support segment (9) that cooperates with the cam control surface (20) includes ~~a particular type of bristle, in particular bristles that protrude beyond the a remainder of the bristles in the bristles' longitudinal direction and/or bristles of greater stiffness~~ differ in kind from other bristles of the brush head.

19. (Currently Amended) The brush head ~~as claimed in any one of the preceding claims of claim 1~~ wherein ~~the or~~ each bristle support segment (9) that cooperates with the cam control surface (14; 20) forms a radially outer peripheral portion of the bristle support (2) and carries radially outer bristles (16) .

20. (Currently Amended) The brush head ~~as claimed in any one of the preceding claims of claim 1~~ wherein the bristle support (2) includes at least one rigid, immovable bristle support segment (8) having bristle tufts secured thereto.

21. (Currently Amended) A toothbrush ~~with~~ comprising
a handpiece;
a motor drive mechanism disposed within the handpiece; and
a the brush head (1) as claimed in any one of the preceding claims of claim 1 connected to the motor for movement of the bristle support.

22. (New) The brush head of claim 1 adapted to be releasably attached to a handpiece of an electric toothbrush.

23. (New) The brush head of claim 2 wherein the bristle support is adapted to be driven in an oscillatory rotational motion.

24. (New) The brush head of claim 2 wherein the axis of rotation lies in a direction transverse to a longitudinal axis of the brush head.

25. (New) The brush head of claim 2 wherein the cam control surface is formed on the brush head support.

26. (New) The brush head of claim 3 wherein the bristle support segments adapted to be driven in dependence upon the rotary position of the bristle support include one pair of bristle support segments arranged at diametrically opposite sides of the bristle support.

27. (New) The brush head of claim 13 wherein the cam control surface is formed directly by a section of a bristle support mounting structure of the brush head support.

28. (New) The brush head of claim 18 wherein each bristle support segment that cooperates with the cam control surface carries bristles that protrude, in a longitudinal direction of the bristles, beyond other bristles of the brush head.

29. (New) The brush head of claim 18 wherein each bristle support segment that cooperates with the cam control surface carries bristles of greater stiffness than other bristles of the brush head.